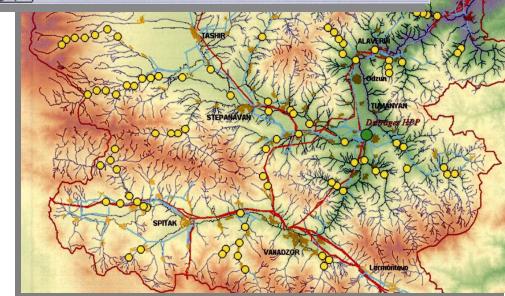




# CONSULTING SERVICES FOR DATA COLLECTION FOR PREPARATION OF FEASIBILITY STUDIES FOR RENEWABLE ENERGY PROJECTS AND FOR RENEWABLE ENERGY DATA BASE OF ARMENIA

**Country.** Republic of Armenia  
**City.** Yerevan  
**Client.** "EnergyInvest PIU" SI  
**Duration.** 2005  
**Co-executors.** Georisk RI CJSC / Solaren International LTD

ID	NAME	INHABIT.	CAPACITY	CAP. UNIT	PRESSURE	PRES. UNIT	PROD. UNIT	CONSUMP.	CONSUMP. UNIT
1	37 Dzherak HPP	1205	1130	1.56 MWh	115 m		6.3 million Kwh/hour	1.8 cub. m	
2	36 Chavushin HPP-2	1139	1034	1.6 MWh	90 m		6.3 million Kwh/hour	2 cub. m	
3	36 Chavushin HPP-3	1139	1034	1.6 MWh	90 m		6.3 million Kwh/hour	2 cub. m	
4	86 Shvabik HPP-1	1025	950	0.75 MWh	240 m		300 million Kwh/hour	37 cub. m	
5	85 Matenadik HPP-2	1385	1295	0.51 MWh	85 m		122 million Kwh/hour	0.5 cub. m	
6	85 Matenadik HPP-3	1385	1295	0.51 MWh	85 m		122 million Kwh/hour	0.5 cub. m	
7	2 Dzoraget HPP-2	1975	1900	1.05 MWh	70 m		3.73 million Kwh/hour	28 cub. m	
8	3 Dzoraget HPP-3	1900	1825	1.47 MWh	70 m		6.27 million Kwh/hour	28 cub. m	

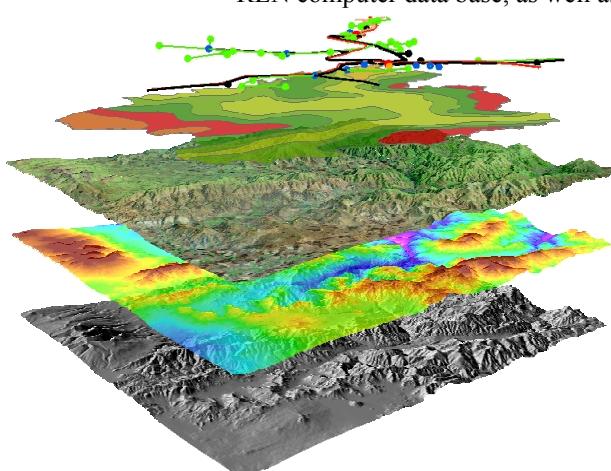


## Terms of Reference

1. Collect renewable energy (REN) resource assessments data and fill-up to Armenian REN DB.
2. Carry out field surveys on REN field in Lori marz of Armenia.
3. Convert the data and fill up Armenian REN DB and Lori marz REN GIS.

## *Brief description of project and services provided*

- ✓ For filling up the REN data base the following was collected:
  - Hydrological characteristics of rivers, detailed data on water supply, wastewater and irrigation systems,
  - data on operating power plants,
  - data on power supply systems,
  - data on wind, solar energy, biogas and thermal energy,
  - demographic data on residential areas and population,
  - data on civil infrastructure,
  - environmental impact and human health impact assessment in environmental and legal fields.
- ✓ In Lori marz the following was carried out during filed instrumental investigations:
  - Recording river bed changes in the main river basins,
  - Specification of water systems outlines, determination of coordinates of water springs and water intake points,
  - Specification of data on operating and constructed HPPs in the marz,
  - Assessment of hydro-energy potential of the marz and proposal for perspective HPP schemes.
- ✓ Processing, converting of the collected, analyzed, classified data and filling up Armenian REN computer data base, as well as filling up Lori marz REN GIS system.



## Project objective

Development of Armenian REN computer data base and Lori marz GIS, Lori marz's hydro-energy potential assessment and increasing business interest in REN field development.